



33769-701.831.txt
SEQUENCE LISTING

<110> Hengst, Ludger
Cilensek, Zoran
Grimmler, Matthias

<120> Tyrosine phosphorylation of CDK Inhibitor Proteins of the Cip/Kip Family

<130> 33769-701.831

<140> US 10/576,845

<141> 2004-10-20

<160> 25

<170> PatentIn version 3.2

<210> 1

<211> 597

<212> DNA

<213> Homo sapiens

<400> 1

atgtcaaacg tgcgagtgtc taacgggagc cctagcctgg agcggatgga cgccaggcag	60
gcggagcacc ccaagccctc ggcctgcagg aacctcttcg gcccggtgga ccacgaagag	120
ttaacccggg acttggagaa gactgcaga gacatggaag aggcgagcca gcgcaagtgg	180
aatttcgatt ttcagaatca caaaccccta gagggcaagt acgagtggca agagggtggag	240
aagggcagct tgcccagatt ctactacaga cccccgcggc cccccaaggg tgcctgcaag	300
gtgccggcgc aggagagcca ggatgtcagc gggagccgcc cggcggcgcc ttttaattggg	360
gctccggcta actctgagga cacgcatttg gtggacccaa agactgatcc gtcggacagc	420
cagacggggt tagcggagca atgcgcagga ataaggaagc gacctgcaac cgacgattct	480
tctactcaaa acaaaagagc caacagaaca gaagaaaatg tttcagacgg ttccccaat	540
gccggttctg tggagcagac gcccaagaag cctggcctca gaagacgtca aacgtaa	597

<210> 2

<211> 198

<212> PRT

<213> Homo sapiens

<400> 2

Met	Ser	Asn	Val	Arg	Val	Ser	Asn	Gly	Ser	Pro	Ser	Leu	Glu	Arg	Met
1				5				10						15	

Asp	Ala	Arg	Gln	Ala	Glu	His	Pro	Lys	Pro	Ser	Ala	Cys	Arg	Asn	Leu
			20					25					30		

Phe	Gly	Pro	Val	Asp	His	Glu	Glu	Leu	Thr	Arg	Asp	Leu	Glu	Lys	His
		35					40					45			

33769-701.831.txt

Cys Arg Asp Met Glu Glu Ala Ser Gln Arg Lys Trp Asn Phe Asp Phe
50 55 60

Gln Asn His Lys Pro Leu Glu Gly Lys Tyr Glu Trp Gln Glu Val Glu
65 70 75 80

Lys Gly Ser Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg Pro Pro Lys
85 90 95

Gly Ala Cys Lys Val Pro Ala Gln Glu Ser Gln Asp Val Ser Gly Ser
100 105 110

Arg Pro Ala Ala Pro Leu Ile Gly Ala Pro Ala Asn Ser Glu Asp Thr
115 120 125

His Leu Val Asp Pro Lys Thr Asp Pro Ser Asp Ser Gln Thr Gly Leu
130 135 140

Ala Glu Gln Cys Ala Gly Ile Arg Lys Arg Pro Ala Thr Asp Asp Ser
145 150 155 160

Ser Thr Gln Asn Lys Arg Ala Asn Arg Thr Glu Glu Asn Val Ser Asp
165 170 175

Gly Ser Pro Asn Ala Gly Ser Val Glu Gln Thr Pro Lys Lys Pro Gly
180 185 190

Leu Arg Arg Arg Gln Thr
195

<210> 3
<211> 495
<212> DNA
<213> Homo sapiens

<400> 3
atgtcagaac cggctgggga tgtccgtcag aacccatgcg gcagcaaggc ctgccgccgc 60
ctcttcggcc cagtggacag cgagcagctg agccgcgact gtgatgcgct aatggcgggc 120
tgcattcagg aggccgtga gcgatggaac ttcgactttg tcaccgagac accactggag 180
ggtgacttcg cctgggagcg tgtgcggggc cttggcctgc ccaagctcta ccttcccacg 240
gggccccggc gaggccggga tgagttggga ggaggcaggc ggcctggcac ctcacctgct 300
ctgctgcagg ggacagcaga ggaagaccat gtggacctgt cactgtcttg tacccttggtg 360
cctcgctcag gggagcaggc tgaagggtcc ccagggtggac ctggagactc tcagggtcga 420
aaacggcggc agaccagcat gacagatttc taccactcca aacgccggct gatcttctcc 480
aagaggaagc cctaa 495

<210> 4
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 4

Met Ser Glu Pro Ala Gly Asp Val Arg Gln Asn Pro Cys Gly Ser Lys
 1 5 10 15

Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln Leu Ser Arg
 20 25 30

Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala Arg Glu Arg
 35 40 45

Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu Gly Asp Phe Ala
 50 55 60

Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys Leu Tyr Leu Pro Thr
 65 70 75 80

Gly Pro Arg Arg Gly Arg Asp Glu Leu Gly Gly Gly Arg Arg Pro Gly
 85 90 95

Thr Ser Pro Ala Leu Leu Gln Gly Thr Ala Glu Glu Asp His Val Asp
 100 105 110

Leu Ser Leu Ser Cys Thr Leu Val Pro Arg Ser Gly Glu Gln Ala Glu
 115 120 125

Gly Ser Pro Gly Gly Pro Gly Asp Ser Gln Gly Arg Lys Arg Arg Gln
 130 135 140

Thr Ser Met Thr Asp Phe Tyr His Ser Lys Arg Arg Leu Ile Phe Ser
 145 150 155 160

Lys Arg Lys Pro

<210> 5
 <211> 951
 <212> DNA
 <213> Homo sapiens

<400> 5

atgtccgacg cgctccctccg cagcacatcc acgatggagc gtcttgctgc ccgtgggacc 60
 ttcccagtac tagtgcgcac cagcgcctgc cgcagcctct tcgggccggt ggaccacgag 120

33769-701.831.txt

gagctgagcc gcgagctgca ggcccgcctg gccgagctga acgccgagga ccagaaccgc 180
 tgggattacg acttccagca ggacatgccg ctgcggggcc ctggacgcct gcagtggacc 240
 gaagtggaca gcgactcggg gcccgcggtc taccgcgaga cggcgcaggt ggggcgctgc 300
 cgcctgctgc tggcgccgcg gcccgtcgcg gtcgcggtgg ctgtcagccc gccctcgag 360
 ccggccgctg agtcctcga cggcctcgag gaggcgccgg agcagctgcc tagtgtccc 420
 gtcccgcccc cggcgctccac cccgccccca gtcccggtcc tggctccagc cccggccccg 480
 gctccggctc cggcgcgggc tccggtcgcg gctccggctc cggcgcgggt cctggccccg 540
 gccccggccc cggccccggc tccggctccg gccccggctc cagtcgcggc cccggccccca 600
 gccccggccc cggccccggc cccggcccc cccccggccc cggccccgga cgcggcgct 660
 caagagagcg ccgagcaggg cgcgaaccag gggcagcgcg gccaggagcc tctcgctgac 720
 cagctgcact cggggatttc gggacgtccc gcggccggca ccgcggccgc cagcgccaac 780
 ggcgcggcga tcaagaagct gtccgggcct ctgatctccg atttcttcgc caagcgcaag 840
 agatcagcgc ctgagaagtc gtcgggcgat gtccccgcgc cgtgtccctc tccaagcgcc 900
 gccctggcg tgggctcggg ggagcagacc ccgcgaaga ggctgcggtg a 951

<210> 6
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 6

Met Ser Asp Ala Ser Leu Arg Ser Thr Ser Thr Met Glu Arg Leu Val
1 5 10 15

Ala Arg Gly Thr Phe Pro Val Leu Val Arg Thr Ser Ala Cys Arg Ser
20 25 30

Leu Phe Gly Pro Val Asp His Glu Glu Leu Ser Arg Glu Leu Gln Ala
35 40 45

Arg Leu Ala Glu Leu Asn Ala Glu Asp Gln Asn Arg Trp Asp Tyr Asp
50 55 60

Phe Gln Gln Asp Met Pro Leu Arg Gly Pro Gly Arg Leu Gln Trp Thr
65 70 75 80

Glu Val Asp Ser Asp Ser Val Pro Ala Phe Tyr Arg Glu Thr Val Gln
85 90 95

Val Gly Arg Cys Arg Leu Leu Leu Ala Pro Arg Pro Val Ala Val Ala
100 105 110

33769-701.831.txt

Val Ala Val Ser Pro Pro Leu Glu Pro Ala Ala Glu Ser Leu Asp Gly
115 120 125

Leu Glu Glu Ala Pro Glu Gln Leu Pro Ser Val Pro Val Pro Ala Pro
130 135 140

Ala Ser Thr Pro Pro Pro Val Pro Val Leu Ala Pro Ala Pro Ala Pro
145 150 155 160

Ala Pro Ala Pro Val Ala Ala Pro Val Ala Ala Pro Val Ala Val Ala
165 170 175

Val Leu Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro
180 185 190

Ala Pro Val Ala Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro
195 200 205

Ala Pro Ala Pro Ala Pro Ala Pro Asp Ala Ala Pro Gln Glu Ser Ala
210 215 220

Glu Gln Gly Ala Asn Gln Gly Gln Arg Gly Gln Glu Pro Leu Ala Asp
225 230 235 240

Gln Leu His Ser Gly Ile Ser Gly Arg Pro Ala Ala Gly Thr Ala Ala
245 250 255

Ala Ser Ala Asn Gly Ala Ala Ile Lys Lys Leu Ser Gly Pro Leu Ile
260 265 270

Ser Asp Phe Phe Ala Lys Arg Lys Arg Ser Ala Pro Glu Lys Ser Ser
275 280 285

Gly Asp Val Pro Ala Pro Cys Pro Ser Pro Ser Ala Ala Pro Gly Val
290 295 300

Gly Ser Val Glu Gln Thr Pro Arg Lys Arg Leu Arg
305 310 315

<210> 7
<211> 29
<212> DNA
<213> Homo sapiens

<400> 7
ggatccgga gacatatgtc aaacgtgcg

29

<210> 8

<211> 34
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggagtccttct gcagtttgca ttactatccc tagg

34

<210> 9
 <211> 32
 <212> DNA
 <213> Homo sapiens

<400> 9
 gcttgcccga gttctatttc agacccccgc gg

32

<210> 10
 <211> 32
 <212> DNA
 <213> Homo sapiens

<400> 10
 ccgcgggggt ctgaaataga actcgggcaa gc

32

<210> 11
 <211> 34
 <212> DNA
 <213> Homo sapiens

<400> 11
 gcttgcccga gttctttctac agacccccgc ggcc

34

<210> 12
 <211> 34
 <212> DNA
 <213> Homo sapiens

<400> 12
 ggccgcgggg gtctgtagaa gaactcgggc aagc

34

<210> 13
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 13
 cccctagagg gcaagttcga gtggcaagag

30

<210> 14
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 14
 ctcttgccac tcgaacttgc cctctagggg

30

<210> 15

<211> 27
 <212> DNA
 <213> Homo sapiens

<400> 15
 gccgcggggg tctgaagaag aactcgg

27

<210> 16
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 16
 catatgccca acctttttgt ggca

24

<210> 17
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 17
 catatggtca acagcctgga gaaac

25

<210> 18
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 18
 cttcagcagg ttctggtctt ggtg

24

<210> 19
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 19
 gcatatgggg cagcagcctg g

21

<210> 20
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 20
 gcaggcggat ccgacgggcc

20

<210> 21
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 21

Glu Lys Gly Ser Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg Pro
 1 5 10 15

<210> 22
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 22

Ser Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg Pro
 1 5 10

<210> 23
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 23

Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg
 1 5 10

<210> 24
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 24

Pro Glu Phe Tyr Tyr Arg Pro Pro
 1 5

<210> 25
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 25

Glu Phe Tyr Tyr Arg Pro
 1 5